

Title (en)

Impact detecting apparatus and packaging system

Title (de)

Stoßdetektionsvorrichtung und Verpackungssystem

Title (fr)

Appareil de détection d'impacts et système de conditionnement

Publication

EP 2107379 A1 20091007 (EN)

Application

EP 09250898 A 20090327

Priority

- JP 2008095711 A 20080402
- JP 2008236551 A 20080916

Abstract (en)

An impact detection sensor (70) is attached to a packaging container (79). When the packaging container is subjected to impacts downward in a vertical direction twice, i.e., a bottom surface of the packaging container is subjected to impacts twice, a weight (20) moves downward in the vertical direction by the application of the first impact, and is seen through a weight indicator unit (52) located on the bottom of an impact detection sensor. At the time of the application of the second impact, the weight moved downward in the vertical direction is prevented from moving back to an initial position by a pressing portion, and seen through the same bottom weight indicator unit.

IPC 8 full level

G01P 15/03 (2006.01); **G01D 3/10** (2006.01); **G01P 15/00** (2006.01)

CPC (source: EP US)

G01D 3/10 (2013.01 - EP US); **G01P 15/00** (2013.01 - EP US); **G01P 15/03** (2013.01 - EP US)

Citation (applicant)

- JP 2008095711 A 20080424 - KANZAKI KOKYUKOKI MFG CO LTD
- JP 2008236551 A 20081002 - NEC CORP
- JP 2001108703 A 20010420 - AKEBONO BRAKE IND
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- JP 2003207515 A 20030725 - MATSUSHITA ELECTRIC IND CO LTD
- JP 2006053073 A 20060223 - OSAKA GAS CO LTD
- JP H0443266 B2 19920716
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Citation (search report)

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- [A] JP H10177035 A 19980630 - OMRON TATEISI ELECTRONICS CO
- [A] US 4470302 A 19840911 - CARTE NORMAN E [US]
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Cited by

EP2312324A3; US2014026808A1; US9272792B2; US8493225B2

Designated contracting state (EPC)

DE ES FR GB IT NL

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2107379 A1 20091007; **EP 2107379 B1 20130508**; JP 2009265076 A 20091112; JP 5424082 B2 20140226; US 2009249858 A1 20091008; US 8074489 B2 20111213

DOCDB simple family (application)

EP 09250898 A 20090327; JP 2008236551 A 20080916; US 38512509 A 20090331